

CLAIMS

WHAT IS CLAIMED IS:

1. A light source, comprising:
5 an LED that emits excitation light;
an optically transparent body;
a phosphor material positioned to receive the excitation light and disposed on
or in the optically transparent body, the phosphor material emitting
visible light when illuminated with the excitation light; and
10 a non-planar flexible multilayer reflector that reflects the excitation light and
transmits visible light, the non-planar flexible multilayer reflector being
positioned to reflect LED light onto the phosphor material.
2. The light source according to claim 1, wherein the non-planar flexible
15 multilayer reflector comprises polymeric material.
3. The light source according to claim 1, wherein the non-planar flexible
multilayer reflector comprises alternating layers of a first and second thermoplastic
polymer and wherein at least some of the layers are birefringent.
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4. The light source according to claim 1, wherein the phosphor material is
uniformly disposed on or in the optically transparent body.
5. The light source according to claim 1, wherein the phosphor material is non-
25 uniformly disposed on or in the optically transparent body.
6. The light source according to claim 1, wherein the phosphor material is
disposed within the optically transparent body adjacent the LED and the optically

transparent body has a second region spaced away from the LED where phosphor material is not present.

7. The light source according to claim 1, wherein the phosphor material is
5 disposed within the optically transparent body and spaced away from the LED.

8. The light source according to claim 1, wherein the phosphor material is
disposed on the optically transparent body and the phosphor material has a first
thickness or first density that is greater at a first angle normal to the excitation light
10 than a second thickness or second density at a second angle non-normal to the
excitation light.

9. The light source according to claim 1, wherein the phosphor material is
disposed on the optically transparent body and the non-planar flexible multilayer
15 reflector is disposed on the phosphor material.